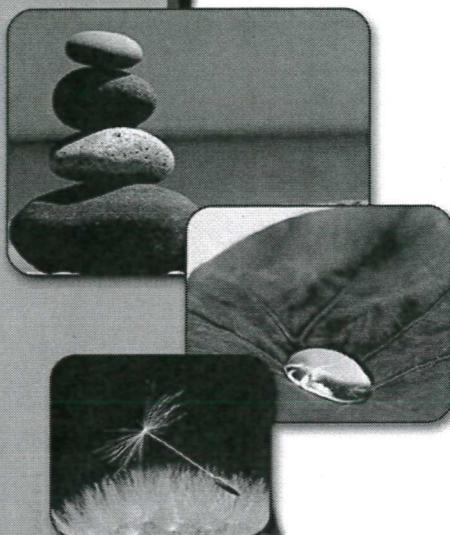


# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

CHECKED FOR COMPLETENESS  
OF PARAMETERS ORDERED BY:  
Becky Mason

TestAmerica Job ID: 480-34802-1

Client Project/Site: Olin Chemical Wilmington Surface Water

Sampling Event: Surfacewater Quarterly (2, 5, 8, 11)

For:

Olin Corporation

PO BOX 248

Charleston, Tennessee 37310-0248

Attn: Mr. James Cashwell

Becky Mason

Authorized for release by:

4/8/2013 9:55:00 AM

Becky Mason

Project Manager II

becky.mason@testamericainc.com

### LINKS

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results through

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Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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## Definitions/Glossary

Client: Olin Corporation

Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

### Qualifiers

#### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Glossary

**Abbreviation** These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Case Narrative

Client: Olin Corporation  
Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

**Job ID: 480-34802-1**

**Laboratory: TestAmerica Buffalo**

Narrative

### CASE NARRATIVE

**Client: Olin Corporation**

**Project: Olin Chemical Wilmington Surface Water**

**Report Number: 480-34802-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **RECEIPT**

The samples were received on 03/22/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8 C.

Note: All samples that require thermal preservation are considered acceptable if the arrival temperature is within the method's specified temperature range or for general analysis, ranging from 6°C to just above the freezing temperature of water. Samples that are hand delivered, immediately following collection, may not meet these criteria; however, they will be considered acceptable according to NELAC and State standards, if there is evidence that the chilling process has begun, such as stored and transported to the laboratory on ice.

#### **TOTAL METALS (ICP) Total**

Samples OC-ISCO1 (480-34802-8), OC-ISCO2 (480-34802-9), OC-ISCO3 (480-34802-10), OC-PZ-16RRSW (480-34802-11), OC-PZ-17RRSW (480-34802-12), OC-PZ-18RSW (480-34802-13) and OC-SD-17 SW (480-34802-14) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010. The samples were prepared and analyzed on 03/22/2013.

At the request of the client, an modified MCP analyte list was reported for this job.

No difficulties were encountered during the metals (ICP) analyses.

All quality control parameters were within the acceptance limits.

#### **TOTAL METALS (ICP) Dissolved**

Samples OC-ISCO1 (480-34802-8), OC-ISCO2 (480-34802-9), OC-ISCO3 (480-34802-10), OC-PZ-16RRSW (480-34802-11), OC-PZ-17RRSW (480-34802-12), OC-PZ-18RSW (480-34802-13) and OC-SD-17 SW (480-34802-14) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010. The samples were prepared and analyzed on 03/22/2013.

At the request of the client, an modified MCP analyte list was reported for this job.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

#### **SPECIFIC CONDUCTIVITY**

## Case Narrative

Client: Olin Corporation  
Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

### Job ID: 480-34802-1 (Continued)

#### Laboratory: TestAmerica Buffalo (Continued)

Samples OC-ISCO1 (480-34802-8), OC-ISCO2 (480-34802-9), OC-ISCO3 (480-34802-10), OC-PZ-16RRSW (480-34802-11), OC-PZ-17RRSW (480-34802-12), OC-PZ-18RSW (480-34802-13) and OC-SD-17 SW (480-34802-14) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 03/27/2013.

No difficulties were encountered during the conductivity analyses.

All quality control parameters were within the acceptance limits.

#### ANIONS (28 DAY HOLD TIME)

Samples OC-ISCO1 (480-34802-8), OC-ISCO2 (480-34802-9), OC-ISCO3 (480-34802-10), OC-PZ-16RRSW (480-34802-11), OC-PZ-17RRSW (480-34802-12), OC-PZ-18RSW (480-34802-13) and OC-SD-17 SW (480-34802-14) were analyzed for anions (28 day hold time) in accordance with EPA Method 300.0. The samples were analyzed on 03/23/2013 and 03/26/2013.

The following samples were diluted to bring the concentration of target analytes within the calibration range: OC-ISCO2 (480-34802-9)[5X], OC-ISCO3 (480-34802-10)[5X], OC-PZ-16RRSW (480-34802-11)[5X], OC-PZ-17RRSW (480-34802-12)[5X], OC-PZ-18RSW (480-34802-13)[5X] and OC-SD-17 SW (480-34802-14)[5X]. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

#### AMMONIA

Samples OC-ISCO1 (480-34802-8), OC-ISCO2 (480-34802-9), OC-ISCO3 (480-34802-10), OC-PZ-16RRSW (480-34802-11), OC-PZ-17RRSW (480-34802-12), OC-PZ-18RSW (480-34802-13) and OC-SD-17 SW (480-34802-14) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 03/26/2013.

Refer to the QC report for details.

The following samples were diluted to bring the concentration of target analytes within the calibration range: OC-ISCO1 (480-34802-8)[10X], OC-ISCO2 (480-34802-9)[10X], OC-PZ-16RRSW (480-34802-11)[20X], OC-PZ-17RRSW (480-34802-12)[20X], OC-PZ-18RSW (480-34802-13)[10X] and OC-SD-17 SW (480-34802-14)[10X]. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the ammonia analyses.

All other quality control parameters were within the acceptance limits.

#### NITROGEN-NITRITE

Samples OC-ISCO1 (480-34802-8), OC-ISCO2 (480-34802-9), OC-ISCO3 (480-34802-10), OC-PZ-16RRSW (480-34802-11), OC-PZ-17RRSW (480-34802-12), OC-PZ-18RSW (480-34802-13) and OC-SD-17 SW (480-34802-14) were analyzed for Nitrogen-Nitrite in accordance with MCAWW 353.2. The samples were analyzed on 03/22/2013.

No difficulties were encountered during the nitrite analyses.

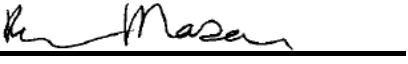
All quality control parameters were within the acceptance limits.

#### NITRATE

Samples OC-ISCO1 (480-34802-8), OC-ISCO2 (480-34802-9), OC-ISCO3 (480-34802-10), OC-PZ-16RRSW (480-34802-11), OC-PZ-17RRSW (480-34802-12), OC-PZ-18RSW (480-34802-13) and OC-SD-17 SW (480-34802-14) were analyzed for Nitrate in accordance with EPA Method 353.2. The samples were analyzed on 03/22/2013.

No difficulties were encountered during the nitrate analyses.

All quality control parameters were within the acceptance limits.

MassDEP Analytical Protocol Certification Form					
Laboratory Name: <b>TestAmerica Buffalo</b>		Project #: <b>480-34802-1</b>			
Project Location: <b>Olin Chemical Wilmington MA</b>			RTN:		
<b>This form provides certifications for the following data set: list Laboratory Sample ID Number(s): 480-34802-1[8-14]</b>					
Matrices: <input checked="" type="checkbox"/> Groundwater/Surface Water <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Drinking Water <input type="checkbox"/> Air <input type="checkbox"/> Other:					
<b>CAM Protocols (check all that apply below):</b>					
8260 VOC CAM II A	<input type="checkbox"/> 7470/7471 Hg <input type="checkbox"/> CAM III B	Mass DEP VPH CAM IV A	<input type="checkbox"/> 8081 Pesticides <input type="checkbox"/> CAM V B	7196 Hex Cr CAM VI B	<input type="checkbox"/> Mass DEP APH CAM IX A
8270 SVOC CAM II B	<input type="checkbox"/> 6010 Metals <input type="checkbox"/> CAM III C	Mass DEP EPH CAM IV B	<input type="checkbox"/> 8151 Herbicides <input type="checkbox"/> CAM V C	8330 Explosives CAM VIII A	<input type="checkbox"/> TO-15 VOC CAM IX B
6010 Metals CAM III A	<input type="checkbox"/> 6020 Metals <input type="checkbox"/> CAM III D	8082 PCB CAM V A	<input type="checkbox"/> 9014 Total Cyanide/PAC <input type="checkbox"/> CAM VI A	6860 Perchlorate CAM VIII B	
<b>Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status</b>					
<b>A</b>	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>B</b>	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>C</b>	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>D</b>	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>E</b>	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>F</b>	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Responses to Questions G, H and I below are required for "Presumptive Certainty" status</b>					
<b>G</b>	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<i>Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350</i>					
<b>H</b>	Were <b>all</b> QC performance standards specified in the CAM protocol(s) achieved?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>I</b>	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <sup>1</sup>
<sup>1</sup> All negative responses must be addressed in an attached laboratory narrative.					
<i>I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.</i>					
Signature:			Position:	Project Manager	
Printed Name:	Becky Mason		Date:	4/8/13 9:52	
This form has been electronically signed and approved					

# Detection Summary

Client: Olin Corporation

Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

## Client Sample ID: OC-ISCO1

## Lab Sample ID: 480-34802-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	13		5.0	1.0	ug/L	1		6010	Total/NA
Aluminum	170	J	200	60	ug/L	1		6010	Total/NA
Sodium	120000		1000	320	ug/L	1		6010	Total/NA
Chromium	11		5.0	1.0	ug/L	1		6010	Dissolved
Aluminum	160	J	200	60	ug/L	1		6010	Dissolved
Sodium	130000		1000	320	ug/L	1		6010	Dissolved
Chloride	190		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	63		10	1.7	mg/L	5		300.0	Total/NA
Ammonia	14		0.20	0.090	mg/L	10		350.1	Total/NA
Nitrate as N	0.49		0.050	0.020	mg/L	1		353.2	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	870		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA

## Client Sample ID: OC-ISCO2

## Lab Sample ID: 480-34802-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	130		5.0	1.0	ug/L	1		6010	Total/NA
Aluminum	960		200	60	ug/L	1		6010	Total/NA
Sodium	100000		1000	320	ug/L	1		6010	Total/NA
Chromium	68		5.0	1.0	ug/L	1		6010	Dissolved
Aluminum	430		200	60	ug/L	1		6010	Dissolved
Sodium	100000		1000	320	ug/L	1		6010	Dissolved
Chloride	150		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	150		10	1.7	mg/L	5		300.0	Total/NA
Ammonia	19		0.20	0.090	mg/L	10		350.1	Total/NA
Nitrate as N	1.1		0.050	0.020	mg/L	1		353.2	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	850		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA

## Client Sample ID: OC-ISCO3

## Lab Sample ID: 480-34802-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	84	J	200	60	ug/L	1		6010	Total/NA
Sodium	85000		1000	320	ug/L	1		6010	Total/NA
Aluminum	74	J	200	60	ug/L	1		6010	Dissolved
Sodium	87000		1000	320	ug/L	1		6010	Dissolved
Chloride	170		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	35		10	1.7	mg/L	5		300.0	Total/NA
Ammonia	1.2		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate as N	0.87		0.050	0.020	mg/L	1		353.2	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	700		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA

## Client Sample ID: OC-PZ-16RRSW

## Lab Sample ID: 480-34802-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	370		5.0	1.0	ug/L	1		6010	Total/NA
Aluminum	1800		200	60	ug/L	1		6010	Total/NA
Sodium	130000		1000	320	ug/L	1		6010	Total/NA
Chromium	170		5.0	1.0	ug/L	1		6010	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

Client: Olin Corporation

TestAmerica Job ID: 480-34802-1

Project/Site: Olin Chemical Wilmington Surface Water

## Client Sample ID: OC-PZ-16RRSW (Continued)

## Lab Sample ID: 480-34802-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	530		200	60	ug/L	1		6010	Dissolved
Sodium	120000		1000	320	ug/L	1		6010	Dissolved
Chloride	190		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	170		10	1.7	mg/L	5		300.0	Total/NA
Ammonia	23		0.40	0.18	mg/L	20		350.1	Total/NA
Nitrate as N	0.60		0.050	0.020	mg/L	1		353.2	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	990		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA

## Client Sample ID: OC-PZ-17RRSW

## Lab Sample ID: 480-34802-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	410		5.0	1.0	ug/L	1		6010	Total/NA
Aluminum	1800		200	60	ug/L	1		6010	Total/NA
Sodium	120000		1000	320	ug/L	1		6010	Total/NA
Chromium	340		5.0	1.0	ug/L	1		6010	Dissolved
Aluminum	1200		200	60	ug/L	1		6010	Dissolved
Sodium	110000		1000	320	ug/L	1		6010	Dissolved
Chloride	180		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	160		10	1.7	mg/L	5		300.0	Total/NA
Ammonia	25		0.40	0.18	mg/L	20		350.1	Total/NA
Nitrate as N	0.71		0.050	0.020	mg/L	1		353.2	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	960		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA

## Client Sample ID: OC-PZ-18RSW

## Lab Sample ID: 480-34802-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	12		5.0	1.0	ug/L	1		6010	Total/NA
Aluminum	180 J		200	60	ug/L	1		6010	Total/NA
Sodium	130000		1000	320	ug/L	1		6010	Total/NA
Chromium	13		5.0	1.0	ug/L	1		6010	Dissolved
Aluminum	150 J		200	60	ug/L	1		6010	Dissolved
Sodium	120000		1000	320	ug/L	1		6010	Dissolved
Chloride	210		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	73		10	1.7	mg/L	5		300.0	Total/NA
Ammonia	14		0.20	0.090	mg/L	10		350.1	Total/NA
Nitrate as N	0.50		0.050	0.020	mg/L	1		353.2	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	870		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA

## Client Sample ID: OC-SD-17 SW

## Lab Sample ID: 480-34802-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	360		5.0	1.0	ug/L	1		6010	Total/NA
Aluminum	1500		200	60	ug/L	1		6010	Total/NA
Sodium	110000		1000	320	ug/L	1		6010	Total/NA
Chromium	120		5.0	1.0	ug/L	1		6010	Dissolved
Aluminum	250		200	60	ug/L	1		6010	Dissolved
Sodium	110000		1000	320	ug/L	1		6010	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Olin Corporation

Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

**Client Sample ID: OC-SD-17 SW (Continued)**

**Lab Sample ID: 480-34802-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	160		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	140		10	1.7	mg/L	5		300.0	Total/NA
Ammonia	20		0.20	0.090	mg/L	10		350.1	Total/NA
Nitrate as N	0.71		0.050	0.020	mg/L	1		353.2	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	890		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Client Sample Results

Client: Olin Corporation

TestAmerica Job ID: 480-34802-1

Project/Site: Olin Chemical Wilmington Surface Water

**Client Sample ID: OC-ISCO1**

**Lab Sample ID: 480-34802-8**

Date Collected: 03/21/13 10:00

Matrix: Surface Water

Date Received: 03/22/13 12:30

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	13		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 16:14	1
Aluminum	170	J	200	60	ug/L		03/22/13 09:30	03/22/13 16:14	1
Sodium	120000		1000	320	ug/L		03/22/13 09:30	03/22/13 16:14	1

**Method: 6010 - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	11		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 17:13	1
Aluminum	160	J	200	60	ug/L		03/22/13 09:30	03/22/13 17:13	1
Sodium	130000		1000	320	ug/L		03/22/13 09:30	03/22/13 17:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		2.5	1.4	mg/L			04/05/13 16:06	5
Sulfate	63		10	1.7	mg/L			04/05/13 16:06	5
Ammonia	14		0.20	0.090	mg/L			03/26/13 15:22	10
Nitrate as N	0.49		0.050	0.020	mg/L			03/22/13 21:23	1
Nitrite as N	ND		0.050	0.020	mg/L			03/22/13 21:23	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	870		1.0	1.0	umhos/cm			03/27/13 05:38	1

**Client Sample ID: OC-ISCO2**

**Lab Sample ID: 480-34802-9**

Date Collected: 03/21/13 08:30

Matrix: Surface Water

Date Received: 03/22/13 12:30

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	130		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 16:16	1
Aluminum	960		200	60	ug/L		03/22/13 09:30	03/22/13 16:16	1
Sodium	100000		1000	320	ug/L		03/22/13 09:30	03/22/13 16:16	1

**Method: 6010 - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	68		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 17:15	1
Aluminum	430		200	60	ug/L		03/22/13 09:30	03/22/13 17:15	1
Sodium	100000		1000	320	ug/L		03/22/13 09:30	03/22/13 17:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		2.5	1.4	mg/L			03/26/13 14:24	5
Sulfate	150		10	1.7	mg/L			03/26/13 14:24	5
Ammonia	19		0.20	0.090	mg/L			03/26/13 15:23	10
Nitrate as N	1.1		0.050	0.020	mg/L			03/22/13 21:26	1
Nitrite as N	ND		0.050	0.020	mg/L			03/22/13 21:26	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	850		1.0	1.0	umhos/cm			03/27/13 05:39	1

TestAmerica Buffalo

# Client Sample Results

Client: Olin Corporation

Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

## Client Sample ID: OC-ISCO3

Date Collected: 03/21/13 08:15

Date Received: 03/22/13 12:30

## Lab Sample ID: 480-34802-10

Matrix: Surface Water

### Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 16:18	1
Aluminum	84 J		200	60	ug/L		03/22/13 09:30	03/22/13 16:18	1
Sodium	85000		1000	320	ug/L		03/22/13 09:30	03/22/13 16:18	1

### Method: 6010 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 17:18	1
Aluminum	74 J		200	60	ug/L		03/22/13 09:30	03/22/13 17:18	1
Sodium	87000		1000	320	ug/L		03/22/13 09:30	03/22/13 17:18	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		2.5	1.4	mg/L		03/26/13 14:35		5
Sulfate	35		10	1.7	mg/L		03/26/13 14:35		5
Ammonia	1.2		0.020	0.0090	mg/L		03/26/13 13:39		1
Nitrate as N	0.87		0.050	0.020	mg/L		03/22/13 21:27		1
Nitrite as N	ND		0.050	0.020	mg/L		03/22/13 21:27		1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	700		1.0	1.0	umhos/cm		03/27/13 05:41		1

## Client Sample ID: OC-PZ-16RRSW

Date Collected: 03/21/13 08:50

Date Received: 03/22/13 12:30

## Lab Sample ID: 480-34802-11

Matrix: Surface Water

### Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	370		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 16:20	1
Aluminum	1800		200	60	ug/L		03/22/13 09:30	03/22/13 16:20	1
Sodium	130000		1000	320	ug/L		03/22/13 09:30	03/22/13 16:20	1

### Method: 6010 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	170		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 17:20	1
Aluminum	530		200	60	ug/L		03/22/13 09:30	03/22/13 17:20	1
Sodium	120000		1000	320	ug/L		03/22/13 09:30	03/22/13 17:20	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		2.5	1.4	mg/L		03/26/13 15:15		5
Sulfate	170		10	1.7	mg/L		03/26/13 15:15		5
Ammonia	23		0.40	0.18	mg/L		03/26/13 16:10		20
Nitrate as N	0.60		0.050	0.020	mg/L		03/22/13 21:28		1
Nitrite as N	ND		0.050	0.020	mg/L		03/22/13 21:28		1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	990		1.0	1.0	umhos/cm		03/27/13 05:42		1

TestAmerica Buffalo

# Client Sample Results

Client: Olin Corporation

TestAmerica Job ID: 480-34802-1

Project/Site: Olin Chemical Wilmington Surface Water

## Client Sample ID: OC-PZ-17RRSW

Lab Sample ID: 480-34802-12

Date Collected: 03/21/13 09:15

Matrix: Surface Water

Date Received: 03/22/13 12:30

### Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	410		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 16:23	1
Aluminum	1800		200	60	ug/L		03/22/13 09:30	03/22/13 16:23	1
Sodium	120000		1000	320	ug/L		03/22/13 09:30	03/22/13 16:23	1

### Method: 6010 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	340		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 17:27	1
Aluminum	1200		200	60	ug/L		03/22/13 09:30	03/22/13 17:27	1
Sodium	110000		1000	320	ug/L		03/22/13 09:30	03/22/13 17:27	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		2.5	1.4	mg/L		03/26/13 15:25		5
Sulfate	160		10	1.7	mg/L		03/26/13 15:25		5
Ammonia	25		0.40	0.18	mg/L		03/26/13 16:11		20
Nitrate as N	0.71		0.050	0.020	mg/L		03/22/13 21:29		1
Nitrite as N	ND		0.050	0.020	mg/L		03/22/13 21:29		1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	960		1.0	1.0	umhos/cm		03/27/13 05:44		1

## Client Sample ID: OC-PZ-18RSW

Lab Sample ID: 480-34802-13

Date Collected: 03/21/13 09:45

Matrix: Surface Water

Date Received: 03/22/13 12:30

### Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	12		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 16:25	1
Aluminum	180	J	200	60	ug/L		03/22/13 09:30	03/22/13 16:25	1
Sodium	130000		1000	320	ug/L		03/22/13 09:30	03/22/13 16:25	1

### Method: 6010 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	13		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 17:29	1
Aluminum	150	J	200	60	ug/L		03/22/13 09:30	03/22/13 17:29	1
Sodium	120000		1000	320	ug/L		03/22/13 09:30	03/22/13 17:29	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		2.5	1.4	mg/L		03/26/13 15:35		5
Sulfate	73		10	1.7	mg/L		03/26/13 15:35		5
Ammonia	14		0.20	0.090	mg/L		03/26/13 15:26		10
Nitrate as N	0.50		0.050	0.020	mg/L		03/22/13 21:30		1
Nitrite as N	ND		0.050	0.020	mg/L		03/22/13 21:30		1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	870		1.0	1.0	umhos/cm		03/27/13 05:45		1

TestAmerica Buffalo

# Client Sample Results

Client: Olin Corporation

Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

## Client Sample ID: OC-SD-17 SW

Date Collected: 03/21/13 09:25

Date Received: 03/22/13 12:30

## Lab Sample ID: 480-34802-14

Matrix: Surface Water

### Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	360		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 16:32	1
Aluminum	1500		200	60	ug/L		03/22/13 09:30	03/22/13 16:32	1
Sodium	110000		1000	320	ug/L		03/22/13 09:30	03/22/13 16:32	1

### Method: 6010 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	120		5.0	1.0	ug/L		03/22/13 09:30	03/22/13 17:32	1
Aluminum	250		200	60	ug/L		03/22/13 09:30	03/22/13 17:32	1
Sodium	110000		1000	320	ug/L		03/22/13 09:30	03/22/13 17:32	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		2.5	1.4	mg/L			03/26/13 15:46	5
Sulfate	140		10	1.7	mg/L			03/26/13 15:46	5
Ammonia	20		0.20	0.090	mg/L			03/26/13 15:27	10
Nitrate as N	0.71		0.050	0.020	mg/L			03/22/13 21:34	1
Nitrite as N	ND		0.050	0.020	mg/L			03/22/13 21:34	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	890		1.0	1.0	umhos/cm			03/27/13 05:47	1

# QC Sample Results

Client: Olin Corporation

TestAmerica Job ID: 480-34802-1

Project/Site: Olin Chemical Wilmington Surface Water

## Method: 6010 - Metals (ICP)

**Lab Sample ID:** MB 480-108657/1-A

**Matrix:** Water

**Analysis Batch:** 108839

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 108657

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Chromium	ND				5.0	1.0	ug/L		03/22/13 09:30	03/22/13 15:26	1
Aluminum	ND				200	60	ug/L		03/22/13 09:30	03/22/13 15:26	1
Sodium	ND				1000	320	ug/L		03/22/13 09:30	03/22/13 15:26	1

**Lab Sample ID:** LCS 480-108657/2-A

**Matrix:** Water

**Analysis Batch:** 108839

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 108657

Analyte	Spikes	LCS	LCS	Result	Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
	Added	Result	Qualifier								
Chromium	200	193				ug/L		97	80 - 120		
Aluminum	10000	10000				ug/L		100	80 - 120		
Sodium	10000	9930				ug/L		99	80 - 120		

**Lab Sample ID:** LCSD 480-108657/3-A

**Matrix:** Water

**Analysis Batch:** 108839

**Client Sample ID:** Lab Control Sample Dup

**Prep Type:** Total/NA

**Prep Batch:** 108657

Analyte	Spikes	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
	Added	Result	Qualifier								
Chromium	200	201				ug/L		100	80 - 120	4	20
Aluminum	10000	9980				ug/L		100	80 - 120	1	20
Sodium	10000	10000				ug/L		100	80 - 120	1	20

**Lab Sample ID:** MB 480-108365/11-B

**Matrix:** Water

**Analysis Batch:** 108983

**Client Sample ID:** Method Blank

**Prep Type:** Dissolved

**Prep Batch:** 108663

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Chromium	ND				5.0	1.0	ug/L		03/22/13 09:30	03/22/13 16:34	1
Aluminum	ND				200	60	ug/L		03/22/13 09:30	03/22/13 16:34	1
Sodium	ND				1000	320	ug/L		03/22/13 09:30	03/22/13 16:34	1

**Lab Sample ID:** LCS 480-108365/12-B

**Matrix:** Water

**Analysis Batch:** 108983

**Client Sample ID:** Lab Control Sample

**Prep Type:** Dissolved

**Prep Batch:** 108663

Analyte	Spikes	LCS	LCS	Result	Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
	Added	Result	Qualifier								
Chromium	200	208				ug/L		104	80 - 120		
Aluminum	10000	9490				ug/L		95	80 - 120		
Sodium	10000	9920				ug/L		99	80 - 120		

**Lab Sample ID:** LCSD 480-108365/31-B

**Matrix:** Water

**Analysis Batch:** 108983

**Client Sample ID:** Lab Control Sample Dup

**Prep Type:** Dissolved

**Prep Batch:** 108663

Analyte	Spikes	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
	Added	Result	Qualifier								
Chromium	200	220				ug/L		110	80 - 120	6	20
Aluminum	10000	9840				ug/L		98	80 - 120	4	20
Sodium	10000	10100				ug/L		101	80 - 120	2	20

TestAmerica Buffalo

# QC Sample Results

Client: Olin Corporation

TestAmerica Job ID: 480-34802-1

Project/Site: Olin Chemical Wilmington Surface Water

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID:** MB 480-109048/100

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 109048

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	ND		0.50	0.28	mg/L			03/26/13 13:24	1
Sulfate	ND		2.0	0.35	mg/L			03/26/13 13:24	1

**Lab Sample ID:** LCS 480-109048/99

**Client Sample ID:** Lab Control Sample

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 109048

Analyte	Sample	Sample	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloride	170		125	20.2		mg/L		101	90 - 110
Sulfate	35		125	20.3		mg/L		101	90 - 110

**Lab Sample ID:** 480-34802-10 MS

**Client Sample ID:** OC-ISCO3

**Matrix:** Surface Water

**Prep Type:** Total/NA

**Analysis Batch:** 109048

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloride	170		125	288		mg/L		96	90 - 110
Sulfate	35		125	157		mg/L		98	90 - 110

**Lab Sample ID:** MB 480-111180/4

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 111180

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	ND		0.50	0.28	mg/L			04/05/13 15:46	1
Sulfate	ND		2.0	0.35	mg/L			04/05/13 15:46	1

**Lab Sample ID:** LCS 480-111180/3

**Client Sample ID:** Lab Control Sample

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 111180

Analyte	Sample	Sample	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloride	19.3		20.0	19.3		mg/L		96	90 - 110
Sulfate	18.8		20.0	18.8		mg/L		94	90 - 110

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID:** MB 480-109321/123

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 109321

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia	ND		0.020	0.0090	mg/L			03/26/13 15:19	1

TestAmerica Buffalo

# QC Sample Results

Client: Olin Corporation

TestAmerica Job ID: 480-34802-1

Project/Site: Olin Chemical Wilmington Surface Water

## Method: 350.1 - Nitrogen, Ammonia (Continued)

**Lab Sample ID:** MB 480-109321/147

**Matrix:** Water

**Analysis Batch:** 109321

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			03/26/13 15:43	1

**Lab Sample ID:** MB 480-109321/171

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Analysis Batch:** 109321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			03/26/13 16:07	1

**Lab Sample ID:** MB 480-109321/3

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Analysis Batch:** 109321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			03/26/13 13:23	1

**Lab Sample ID:** MB 480-109321/99

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Analysis Batch:** 109321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			03/26/13 14:56	1

**Lab Sample ID:** LCS 480-109321/100

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Analysis Batch:** 109321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	1.00	1.03		mg/L		103	90 - 110

**Lab Sample ID:** LCS 480-109321/124

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Analysis Batch:** 109321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	1.00	0.997		mg/L		100	90 - 110

**Lab Sample ID:** LCS 480-109321/148

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Analysis Batch:** 109321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	1.00	0.999		mg/L		100	90 - 110

**Lab Sample ID:** LCS 480-109321/172

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Analysis Batch:** 109321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

TestAmerica Buffalo

# QC Sample Results

Client: Olin Corporation

TestAmerica Job ID: 480-34802-1

Project/Site: Olin Chemical Wilmington Surface Water

**Lab Sample ID: LCS 480-109321/4**

**Matrix: Water**

**Analysis Batch: 109321**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte		Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Added	Result	Qualifier				
Ammonia		1.00	1.02		mg/L	102	90 - 110	

**Lab Sample ID: 480-34802-14 DU**

**Matrix: Surface Water**

**Analysis Batch: 109321**

**Client Sample ID: OC-SD-17 SW**

**Prep Type: Total/NA**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD Limit
	Result	Qualifier	Result	Qualifier				
Ammonia	20		18.7		mg/L		7	20

## Method: 353.2 - Nitrogen, Nitrite

**Lab Sample ID: MB 480-108865/3**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 108865**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrite as N	ND		0.050	0.020	mg/L			03/22/13 21:20	1

**Lab Sample ID: LCS 480-108865/4**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 108865**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Nitrite as N	1.50	1.64		mg/L	109	90 - 110	

**Lab Sample ID: 480-34802-8 MS**

**Client Sample ID: OC-ISCO1**

**Matrix: Surface Water**

**Prep Type: Total/NA**

**Analysis Batch: 108865**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Nitrite as N	ND		1.00	0.994		mg/L	99	90 - 110	

**Lab Sample ID: 480-34802-8 DU**

**Client Sample ID: OC-ISCO1**

**Matrix: Surface Water**

**Prep Type: Total/NA**

**Analysis Batch: 108865**

Analyte	Sample	Sample	Spike	DU	DU	Unit	D	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier				
Nitrite as N	ND			ND		mg/L		NC	20

# QC Association Summary

Client: Olin Corporation

Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

## Metals

### Prep Batch: 108657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34802-8	OC-ISCO1	Total/NA	Surface Water	3005A	5
480-34802-9	OC-ISCO2	Total/NA	Surface Water	3005A	6
480-34802-10	OC-ISCO3	Total/NA	Surface Water	3005A	7
480-34802-11	OC-PZ-16RRSW	Total/NA	Surface Water	3005A	8
480-34802-12	OC-PZ-17RRSW	Total/NA	Surface Water	3005A	9
480-34802-13	OC-PZ-18RSW	Total/NA	Surface Water	3005A	10
480-34802-14	OC-SD-17 SW	Total/NA	Surface Water	3005A	11
LCS 480-108657/2-A	Lab Control Sample	Total/NA	Water	3005A	12
LCSD 480-108657/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	13
MB 480-108657/1-A	Method Blank	Total/NA	Water	3005A	14

### Prep Batch: 108663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34802-8	OC-ISCO1	Dissolved	Surface Water	3005A	11
480-34802-9	OC-ISCO2	Dissolved	Surface Water	3005A	12
480-34802-10	OC-ISCO3	Dissolved	Surface Water	3005A	13
480-34802-11	OC-PZ-16RRSW	Dissolved	Surface Water	3005A	14
480-34802-12	OC-PZ-17RRSW	Dissolved	Surface Water	3005A	
480-34802-13	OC-PZ-18RSW	Dissolved	Surface Water	3005A	
480-34802-14	OC-SD-17 SW	Dissolved	Surface Water	3005A	
LCS 480-108365/12-B	Lab Control Sample	Dissolved	Water	3005A	
LCSD 480-108365/31-B	Lab Control Sample Dup	Dissolved	Water	3005A	
MB 480-108365/11-B	Method Blank	Dissolved	Water	3005A	

### Analysis Batch: 108839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34802-8	OC-ISCO1	Total/NA	Surface Water	6010	108657
480-34802-9	OC-ISCO2	Total/NA	Surface Water	6010	108657
480-34802-10	OC-ISCO3	Total/NA	Surface Water	6010	108657
480-34802-11	OC-PZ-16RRSW	Total/NA	Surface Water	6010	108657
480-34802-12	OC-PZ-17RRSW	Total/NA	Surface Water	6010	108657
480-34802-13	OC-PZ-18RSW	Total/NA	Surface Water	6010	108657
480-34802-14	OC-SD-17 SW	Total/NA	Surface Water	6010	108657
LCS 480-108657/2-A	Lab Control Sample	Total/NA	Water	6010	108657
LCSD 480-108657/3-A	Lab Control Sample Dup	Total/NA	Water	6010	108657
MB 480-108657/1-A	Method Blank	Total/NA	Water	6010	108657

### Analysis Batch: 108983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34802-8	OC-ISCO1	Dissolved	Surface Water	6010	108663
480-34802-9	OC-ISCO2	Dissolved	Surface Water	6010	108663
480-34802-10	OC-ISCO3	Dissolved	Surface Water	6010	108663
480-34802-11	OC-PZ-16RRSW	Dissolved	Surface Water	6010	108663
480-34802-12	OC-PZ-17RRSW	Dissolved	Surface Water	6010	108663
480-34802-13	OC-PZ-18RSW	Dissolved	Surface Water	6010	108663
480-34802-14	OC-SD-17 SW	Dissolved	Surface Water	6010	108663
LCS 480-108365/12-B	Lab Control Sample	Dissolved	Water	6010	108663
LCSD 480-108365/31-B	Lab Control Sample Dup	Dissolved	Water	6010	108663
MB 480-108365/11-B	Method Blank	Dissolved	Water	6010	108663

# QC Association Summary

Client: Olin Corporation

Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

## General Chemistry

### Analysis Batch: 108865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34802-8	OC-ISCO1	Total/NA	Surface Water	353.2	
480-34802-8 DU	OC-ISCO1	Total/NA	Surface Water	353.2	
480-34802-8 MS	OC-ISCO1	Total/NA	Surface Water	353.2	
480-34802-9	OC-ISCO2	Total/NA	Surface Water	353.2	
480-34802-10	OC-ISCO3	Total/NA	Surface Water	353.2	
480-34802-11	OC-PZ-16RRSW	Total/NA	Surface Water	353.2	
480-34802-12	OC-PZ-17RRSW	Total/NA	Surface Water	353.2	
480-34802-13	OC-PZ-18RSW	Total/NA	Surface Water	353.2	
480-34802-14	OC-SD-17 SW	Total/NA	Surface Water	353.2	
LCS 480-108865/4	Lab Control Sample	Total/NA	Water	353.2	
MB 480-108865/3	Method Blank	Total/NA	Water	353.2	

### Analysis Batch: 108868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34802-8	OC-ISCO1	Total/NA	Surface Water	353.2	
480-34802-9	OC-ISCO2	Total/NA	Surface Water	353.2	
480-34802-10	OC-ISCO3	Total/NA	Surface Water	353.2	
480-34802-11	OC-PZ-16RRSW	Total/NA	Surface Water	353.2	
480-34802-12	OC-PZ-17RRSW	Total/NA	Surface Water	353.2	
480-34802-13	OC-PZ-18RSW	Total/NA	Surface Water	353.2	
480-34802-14	OC-SD-17 SW	Total/NA	Surface Water	353.2	

### Analysis Batch: 109048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34802-9	OC-ISCO2	Total/NA	Surface Water	300.0	
480-34802-10	OC-ISCO3	Total/NA	Surface Water	300.0	
480-34802-10 MS	OC-ISCO3	Total/NA	Surface Water	300.0	
480-34802-11	OC-PZ-16RRSW	Total/NA	Surface Water	300.0	
480-34802-12	OC-PZ-17RRSW	Total/NA	Surface Water	300.0	
480-34802-13	OC-PZ-18RSW	Total/NA	Surface Water	300.0	
480-34802-14	OC-SD-17 SW	Total/NA	Surface Water	300.0	
LCS 480-109048/99	Lab Control Sample	Total/NA	Water	300.0	
MB 480-109048/100	Method Blank	Total/NA	Water	300.0	

### Analysis Batch: 109321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34802-8	OC-ISCO1	Total/NA	Surface Water	350.1	
480-34802-9	OC-ISCO2	Total/NA	Surface Water	350.1	
480-34802-10	OC-ISCO3	Total/NA	Surface Water	350.1	
480-34802-11	OC-PZ-16RRSW	Total/NA	Surface Water	350.1	
480-34802-12	OC-PZ-17RRSW	Total/NA	Surface Water	350.1	
480-34802-13	OC-PZ-18RSW	Total/NA	Surface Water	350.1	
480-34802-14	OC-SD-17 SW	Total/NA	Surface Water	350.1	
480-34802-14 DU	OC-SD-17 SW	Total/NA	Surface Water	350.1	
LCS 480-109321/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-109321/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-109321/148	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-109321/172	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-109321/4	Lab Control Sample	Total/NA	Water	350.1	
MB 480-109321/123	Method Blank	Total/NA	Water	350.1	
MB 480-109321/147	Method Blank	Total/NA	Water	350.1	

TestAmerica Buffalo

# QC Association Summary

Client: Olin Corporation

Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

## General Chemistry (Continued)

### Analysis Batch: 109321 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-109321/171	Method Blank	Total/NA	Water	350.1	
MB 480-109321/3	Method Blank	Total/NA	Water	350.1	
MB 480-109321/99	Method Blank	Total/NA	Water	350.1	

### Analysis Batch: 109376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34802-8	OC-ISCO1	Total/NA	Surface Water	SM 2510B	
480-34802-9	OC-ISCO2	Total/NA	Surface Water	SM 2510B	
480-34802-10	OC-ISCO3	Total/NA	Surface Water	SM 2510B	
480-34802-11	OC-PZ-16RRSW	Total/NA	Surface Water	SM 2510B	
480-34802-12	OC-PZ-17RRSW	Total/NA	Surface Water	SM 2510B	
480-34802-13	OC-PZ-18RSW	Total/NA	Surface Water	SM 2510B	
480-34802-14	OC-SD-17 SW	Total/NA	Surface Water	SM 2510B	
LCS 480-109376/1	Lab Control Sample	Total/NA	Water	SM 2510B	

### Analysis Batch: 111180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34802-8	OC-ISCO1	Total/NA	Surface Water	300.0	
LCS 480-111180/3	Lab Control Sample	Total/NA	Water	300.0	
MB 480-111180/4	Method Blank	Total/NA	Water	300.0	

## Lab Chronicle

Client: Olin Corporation  
 Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

### Client Sample ID: OC-ISCO1

Date Collected: 03/21/13 10:00

Date Received: 03/22/13 12:30

### Lab Sample ID: 480-34802-8

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			108657	03/22/13 09:30	JM	TAL BUF
Total/NA	Analysis	6010		1	108839	03/22/13 16:14	LH	TAL BUF
Dissolved	Prep	3005A			108663	03/22/13 09:30	JM	TAL BUF
Dissolved	Analysis	6010		1	108983	03/22/13 17:13	MM	TAL BUF
Total/NA	Analysis	353.2		1	108865	03/22/13 21:23	NH	TAL BUF
Total/NA	Analysis	353.2		1	108868	03/22/13 21:23	NH	TAL BUF
Total/NA	Analysis	350.1		10	109321	03/26/13 15:22	KS	TAL BUF
Total/NA	Analysis	SM 2510B		1	109376	03/27/13 05:38	EGN	TAL BUF
Total/NA	Analysis	300.0		5	111180	04/05/13 16:06	KAC	TAL BUF

### Client Sample ID: OC-ISCO2

Date Collected: 03/21/13 08:30

Date Received: 03/22/13 12:30

### Lab Sample ID: 480-34802-9

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			108657	03/22/13 09:30	JM	TAL BUF
Total/NA	Analysis	6010		1	108839	03/22/13 16:16	LH	TAL BUF
Dissolved	Prep	3005A			108663	03/22/13 09:30	JM	TAL BUF
Dissolved	Analysis	6010		1	108983	03/22/13 17:15	MM	TAL BUF
Total/NA	Analysis	353.2		1	108865	03/22/13 21:26	NH	TAL BUF
Total/NA	Analysis	353.2		1	108868	03/22/13 21:26	NH	TAL BUF
Total/NA	Analysis	300.0		5	109048	03/26/13 14:24	KC	TAL BUF
Total/NA	Analysis	350.1		10	109321	03/26/13 15:23	KS	TAL BUF
Total/NA	Analysis	SM 2510B		1	109376	03/27/13 05:39	EGN	TAL BUF

### Client Sample ID: OC-ISCO3

Date Collected: 03/21/13 08:15

Date Received: 03/22/13 12:30

### Lab Sample ID: 480-34802-10

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			108657	03/22/13 09:30	JM	TAL BUF
Total/NA	Analysis	6010		1	108839	03/22/13 16:18	LH	TAL BUF
Dissolved	Prep	3005A			108663	03/22/13 09:30	JM	TAL BUF
Dissolved	Analysis	6010		1	108983	03/22/13 17:18	MM	TAL BUF
Total/NA	Analysis	353.2		1	108865	03/22/13 21:27	NH	TAL BUF
Total/NA	Analysis	353.2		1	108868	03/22/13 21:27	NH	TAL BUF
Total/NA	Analysis	300.0		5	109048	03/26/13 14:35	KC	TAL BUF
Total/NA	Analysis	350.1		1	109321	03/26/13 13:39	KS	TAL BUF
Total/NA	Analysis	SM 2510B		1	109376	03/27/13 05:41	EGN	TAL BUF

## Lab Chronicle

Client: Olin Corporation  
 Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

### Client Sample ID: OC-PZ-16RRSW

Date Collected: 03/21/13 08:50  
 Date Received: 03/22/13 12:30

### Lab Sample ID: 480-34802-11

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			108657	03/22/13 09:30	JM	TAL BUF
Total/NA	Analysis	6010		1	108839	03/22/13 16:20	LH	TAL BUF
Dissolved	Prep	3005A			108663	03/22/13 09:30	JM	TAL BUF
Dissolved	Analysis	6010		1	108983	03/22/13 17:20	MM	TAL BUF
Total/NA	Analysis	353.2		1	108865	03/22/13 21:28	NH	TAL BUF
Total/NA	Analysis	353.2		1	108868	03/22/13 21:28	NH	TAL BUF
Total/NA	Analysis	300.0		5	109048	03/26/13 15:15	KC	TAL BUF
Total/NA	Analysis	350.1		20	109321	03/26/13 16:10	KS	TAL BUF
Total/NA	Analysis	SM 2510B		1	109376	03/27/13 05:42	EGN	TAL BUF

### Client Sample ID: OC-PZ-17RRSW

Date Collected: 03/21/13 09:15  
 Date Received: 03/22/13 12:30

### Lab Sample ID: 480-34802-12

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			108657	03/22/13 09:30	JM	TAL BUF
Total/NA	Analysis	6010		1	108839	03/22/13 16:23	LH	TAL BUF
Dissolved	Prep	3005A			108663	03/22/13 09:30	JM	TAL BUF
Dissolved	Analysis	6010		1	108983	03/22/13 17:27	MM	TAL BUF
Total/NA	Analysis	353.2		1	108865	03/22/13 21:29	NH	TAL BUF
Total/NA	Analysis	353.2		1	108868	03/22/13 21:29	NH	TAL BUF
Total/NA	Analysis	300.0		5	109048	03/26/13 15:25	KC	TAL BUF
Total/NA	Analysis	350.1		20	109321	03/26/13 16:11	KS	TAL BUF
Total/NA	Analysis	SM 2510B		1	109376	03/27/13 05:44	EGN	TAL BUF

### Client Sample ID: OC-PZ-18RSW

Date Collected: 03/21/13 09:45  
 Date Received: 03/22/13 12:30

### Lab Sample ID: 480-34802-13

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			108657	03/22/13 09:30	JM	TAL BUF
Total/NA	Analysis	6010		1	108839	03/22/13 16:25	LH	TAL BUF
Dissolved	Prep	3005A			108663	03/22/13 09:30	JM	TAL BUF
Dissolved	Analysis	6010		1	108983	03/22/13 17:29	MM	TAL BUF
Total/NA	Analysis	353.2		1	108865	03/22/13 21:30	NH	TAL BUF
Total/NA	Analysis	353.2		1	108868	03/22/13 21:30	NH	TAL BUF
Total/NA	Analysis	300.0		5	109048	03/26/13 15:35	KC	TAL BUF
Total/NA	Analysis	350.1		10	109321	03/26/13 15:26	KS	TAL BUF
Total/NA	Analysis	SM 2510B		1	109376	03/27/13 05:45	EGN	TAL BUF

# Lab Chronicle

Client: Olin Corporation  
Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

**Client Sample ID: OC-SD-17 SW**

**Lab Sample ID: 480-34802-14**

Date Collected: 03/21/13 09:25

Matrix: Surface Water

Date Received: 03/22/13 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			108657	03/22/13 09:30	JM	TAL BUF
Total/NA	Analysis	6010		1	108839	03/22/13 16:32	LH	TAL BUF
Dissolved	Prep	3005A			108663	03/22/13 09:30	JM	TAL BUF
Dissolved	Analysis	6010		1	108983	03/22/13 17:32	MM	TAL BUF
Total/NA	Analysis	353.2		1	108865	03/22/13 21:34	NH	TAL BUF
Total/NA	Analysis	353.2		1	108868	03/22/13 21:34	NH	TAL BUF
Total/NA	Analysis	300.0		5	109048	03/26/13 15:46	KC	TAL BUF
Total/NA	Analysis	350.1		10	109321	03/26/13 15:27	KS	TAL BUF
Total/NA	Analysis	SM 2510B		1	109376	03/27/13 05:47	EGN	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Certification Summary

Client: Olin Corporation

Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

### Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-13 *
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	06-30-13
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-01-13 *
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-13 *
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-13 *
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-13 *
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-13 *
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

## Method Summary

Client: Olin Corporation

Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

Method	Method Description	Protocol	Laboratory
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
SM 2510B	Conductivity, Specific Conductance	SM	TAL BUF

### Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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## Sample Summary

Client: Olin Corporation

Project/Site: Olin Chemical Wilmington Surface Water

TestAmerica Job ID: 480-34802-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-34802-8	OC-ISCO1	Surface Water	03/21/13 10:00	03/22/13 12:30
480-34802-9	OC-ISCO2	Surface Water	03/21/13 08:30	03/22/13 12:30
480-34802-10	OC-ISCO3	Surface Water	03/21/13 08:15	03/22/13 12:30
480-34802-11	OC-PZ-16RRSW	Surface Water	03/21/13 08:50	03/22/13 12:30
480-34802-12	OC-PZ-17RRSW	Surface Water	03/21/13 09:15	03/22/13 12:30
480-34802-13	OC-PZ-18RSW	Surface Water	03/21/13 09:45	03/22/13 12:30
480-34802-14	OC-SD-17 SW	Surface Water	03/21/13 09:25	03/22/13 12:30

## Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-34802-1

**Login Number:** 34802

**List Source:** TestAmerica Buffalo

**List Number:** 1

**Creator:** Kolb, Chris M

Question	Answer	Comment	
Radioactivity either was not measured or, if measured, is at or below background	N/A		1
The cooler's custody seal, if present, is intact.	True		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the sample IDs on the containers and the COC.	True		11
Samples are received within Holding Time.	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A		
If necessary, staff have been informed of any short hold time or quick TAT needs	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Sampling Company provided.	True		
Samples received within 48 hours of sampling.	True		
Samples requiring field filtration have been filtered in the field.	True		
Chlorine Residual checked.	N/A		

## Chain of Custody Record

Client Information		Sampler: Brian Burkhardt		Lab PM: Mason, Becky C		Carrier Tracking No(s):		COC No: 480-33549-8569.1	
Client Contact:	Mr. James Cashwell	Phone:	979 658 6181	E-Mail:	becky.mason@testamericainc.com	Page:	Page 1 of 1	Job #:	480-34862
Analysis Requested									
<input checked="" type="checkbox"/> Total Number of containers <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14									
<input checked="" type="checkbox"/> Preservation Codes: A - HCl      M - Hexane B - NaOH      N - None C - Zn Acetate      O - AsNaO2 D - Nitric Acid      P - NaO4S E - NaHSO4      Q - Na2SO3 F - MeOH      R - Na252SO3 G - Amchlor      S - H2SO4 H - Ascorbic Acid      T - TSP Decadecahydrate I - Water      U - Acetone J - TA      V - MCAA K - DA      W - ph 4-5 L - Other (specify)      Z - other (specify)									
Other:									
Project #: 48006612 Site: Massachusetts Event Desc: Surfacewater Quarterly (2, 6010MCPP - (MOD) 5010 MCP Custom Analyte list SSSOW#:									
Filtered Sample (yes or No): <input checked="" type="checkbox"/> Perform MS/MSD (yes or No): <input type="checkbox"/>									
Field Filtered Sample Date: 3-21-13      Sample Time: 10:00      Sample Type: G=grab Matrix (W=water, S=solid, O=soil, T=tissue, A=air): Water Preservation Code: G									
Sample Identification Sample Date      Sample Time      Sample Type (C=comp, G=grab)      Preservation Code: 3-21-13      10:00      G      Water 8:30      8:15      Water      Water 8:15      8:15      Water      Water 9:15      9:15      Water      Water 9:45      9:45      Water      Water 9:25      9:25      Water      Water OC-BTR SW      OC-BTR SW      Water      Water OC-      MS      Water      Water OC-      MSB      Water      Water									
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological									
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by: Brian Burkhardt      Date: 3-21-13      Company: TestAmerica Relinquished by: Mr. C      Date/time: 3/21/13 1630      Company: TestAmerica Relinquished by:      Date/time:      Company:									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months									
Special Instructions/QC Requirements:									
Method of Shipment: <input checked="" type="checkbox"/> Air Mail      Date/time: 3/21/13 12:30      Company: TestAmerica									
Cooler Temperature(s) °C and Other Remarks: 168 ICE #1									
Custody Seals Intact:		Custody Seal No.:							
<input type="checkbox"/> Yes <input type="checkbox"/> No									